

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_ST0002_01_s _ 2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_ST0002_01_s _ 2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	6		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				o		o
					o		o
DWR ID	DWR_ST0002_01_s_2013_6						
Comment Code							
Inspector Comment							
The LMA has completed flood flight training.							

No Photos

LM Start	0.01	Rating **	M	Issue No.	27
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.151117 °	39.147405 °
				-121.831953 °	-121.828543 °
DWR ID	DWR_ST0002_01_f_2016_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_27\_20170315\_00006.jpg



View of the annual grass blocking visibility.

LM Start	0.36	Rating **	M	Issue No.	42
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.147183 °	39.147183 °
				-121.828142 °	-121.828142 °
DWR ID	DWR_ST0002_01_s_2017_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repair the erosion along the water side toe.					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_42\_20170413\_00069.jpg



View of the erosion along the waterside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.54	Rating **	M	Issue No.	30
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.120417 °	39.120417 °
				-121.779863 °	-121.779863 °
DWR ID	DWR_ST0002_01_f_2015_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_30\_20170315\_00008.jpg



View of the rodent holes along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	59
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °
				-121.779800 °	-121.779800 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51566  
DS\_ID:16880  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 3] 1 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].  
FS Date: 4/13/2017 1:10:49 PM

LM Start	3.55	Rating **	A/W	Issue No.	59 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_51566\_64815.jpg



Slide gates on LS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51566\_64814.jpg



Flap gates on WS toe.

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	59 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °
				-121.779800 °	-121.779800 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51566  
DS\_ID:16880  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 3] 1 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].  
FS Date: 4/13/2017 1:10:49 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51566\_64813.jpg



Abandoned pumphouse and sump on LS toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	60
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51567  
DS\_ID:16895  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 3] 2 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]  
FS Date: 4/13/2017 1:16:13 PM

LM Start	<b>3.55</b>	Rating **	A/W	Issue No.	<b>60 (cont)</b>
LM End	<b>3.55</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_51567\_64819.jpg



Slide gate valves on LS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51567\_64818.jpg



Flap gates on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	60 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51567  
DS\_ID:16895  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 3] 2 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]  
FS Date: 4/13/2017 1:16:13 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51567\_64817.jpg



Abandoned pump house and sump on LS toe.

LM Start	7.83	Rating **	A/W	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299 °	39.067299 °
				-121.742851 °	-121.742851 °
DWR ID	DWR_ST0002_01_f_2016_34				

**Comment Code**

E1 : Note and monitor erosion site.

**Inspector Comment**

Photo 1 of 1 : SP\_2017\_ST0002\_450\_34\_20170315\_00009.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	8.80	Rating **	A/W	Issue No.	35
LM End	8.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.053838 °	39.053838 °
				-121.737247 °	-121.737247 °
DWR ID	DWR_ST0002_01_f_2016_35				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_35\_20170315\_00010.jpg



View of the erosion along the waterside toe.

LM Start	10.83	Rating **	M	Issue No.	66
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID					
Comment Code					
Inspector Comment					

Photo 1 of 3 : UCIP\_SP\_2017\_51595\_65251.jpg



Slide gates on WS shoulder

FS\_ID:51595  
DS\_ID:16871  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 1 of 5.  
4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:16:54 PM

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	66 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51595  
DS\_ID:16871  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 1 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:16:54 PM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>66 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_51595\_65250.jpg



Flap gates on WS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_51595\_65249.jpg



Pumphouse/intake structure on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspections**

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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	67
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51596  
DS\_ID:16906  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 2 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:17:39 PM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51596\_65254.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51596\_65253.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	67 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51596  
DS\_ID:16906  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 2 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:17:39 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51596\_65252.jpg



Pumping plant on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	68
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °
				-121.726873 °	-121.726873 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51597  
DS\_ID:16907  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 3 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:18:31 PM

LM Start	<b>10.83</b>	Rating **	A/W	Issue No.	<b>68 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51597\_65257.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51597\_65256.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	68 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °
				-121.726873 °	-121.726873 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2017\_51597\_65255.jpg



Pumphouse and intake on LS toe.

#### Comment Code

#### Inspector Comment

FS\_ID:51597  
DS\_ID:16907  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 3 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:18:31 PM

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	69
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51598  
DS\_ID:16908  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 4 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:19:46 PM

LM Start	<b>10.83</b>	Rating **	A/W	Issue No.	<b>69 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51598\_65260.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51598\_65259.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	69 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51598  
DS\_ID:16908  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 4 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:19:46 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51598\_65258.jpg



Pumphouse and intake on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	70
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51599  
DS\_ID:16909  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 5 of 5. 4-foot by 6-foot reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:20:32 PM

LM Start	<b>10.83</b>	Rating **	A/W	Issue No.	<b>70 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51599\_65263.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_51599\_65262.jpg



Flap gates on WS Toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	70 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51599  
DS\_ID:16909  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/22/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/8/2012 Need to determine type of abandonment for pipe.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 5 of 5. 4-foot by 6-foot reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 4/13/2017 2:20:32 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51599\_65261.jpg



Pumphouse/intake on LS toe.

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR ST0002 01 s 2016 1				

**Comment Code**

**Inspector Comment**

2011 - Small section of the mid levee slope has eroded from wind wave. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: SBP\_11-1\_L]

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	13.34	Rating **	A/W	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_23\_20170315\_00004.jpg



View of the vehicle erosion along the slope.

LM Start	13.98	Rating **	A	Issue No.	43
LM End	13.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.985980 °	38.985980 °
				-121.702438 °	-121.702438 °
DWR ID	DWR_ST0002_01_s_2017_43				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
There are native grasses on both slopes.					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_43\_20170413\_00070.jpg



View of native grasses on both slopes.

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_37\_20170315\_00011.jpg



View of the erosion caused by vehicle traffic.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	14.71	Rating **	M	Issue No.	38
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_38\_20170315\_00012.jpg



View of the rodent holes along the landside slope.

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 2 : SP\_2017\_ST0002\_450\_21\_20170315\_00002.jpg



View of the vehicle erosion along the waterside slope.

LM Start	<b>17.60</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>17.60</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_ST0002\_450\_21\_20170315\_00003.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	75
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.932476 °	38.932476 °	
			-121.635173 °	-121.635173 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:51609

DS\_ID:16877

EP\_NO: N/A

Repair Type: No Action Needed

Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/23/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/9/2012 Determine type of abandonment for concrete culvert.

FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 1 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]

FS Date: 4/13/2017 2:44:23 PM

LM Start	19.18	Rating **	A/W	Issue No.	75 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51609\_65326.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_51609\_65325.jpg



Slide gates on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

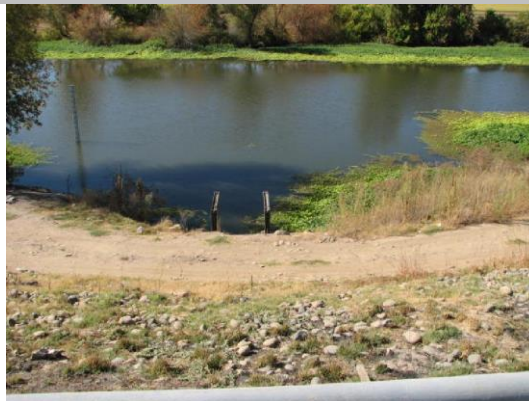
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	75 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932476 °	38.932476 °
				-121.635173 °	-121.635173 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2017\_51609\_65327.jpg



Flap gates on WS toe.

#### Comment Code

#### Inspector Comment

FS\_ID:51609  
 DS\_ID:16877  
 EP\_NO: N/A  
 Repair Type: No Action Needed  
 Crossing Status: Found  
 UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/23/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/9/2012 Determine type of abandonment for concrete culvert.  
 FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 1 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]  
 FS Date: 4/13/2017 2:44:23 PM

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	76
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °
				-121.635160 °	-121.635160 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51610  
DS\_ID:17027  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.  
FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 2 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]  
FS Date: 4/13/2017 2:47:22 PM

LM Start	19.18	Rating **	A/W	Issue No.	76 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51610\_65330.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_51610\_65329.jpg



Slide gates on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

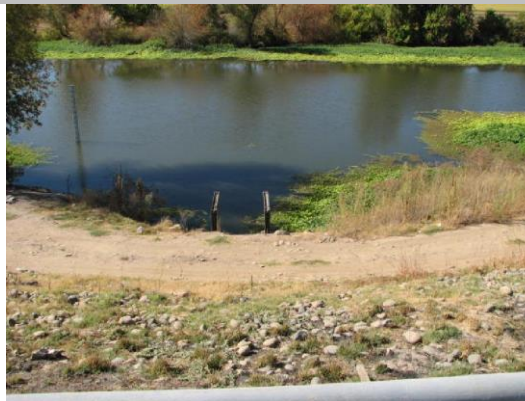
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	76 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °
				-121.635160 °	-121.635160 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2017\_51610\_65328.jpg



Flap gates on WS toe.

#### Comment Code

#### Inspector Comment

FS\_ID:51610  
 DS\_ID:17027  
 EP\_NO: N/A  
 Repair Type: No Action Needed  
 Crossing Status: Found  
 UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.  
 FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 2 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]  
 FS Date: 4/13/2017 2:47:22 PM

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	77
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51611  
DS\_ID:17028  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/23/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/9/2012 Need to determine type of abandonment for concrete culverts.  
FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 3 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]  
FS Date: 4/13/2017 2:50:01 PM

LM Start	<b>19.18</b>	Rating **	A/W	Issue No.	<b>77 (cont)</b>
LM End	<b>19.18</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51611\_65333.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_51611\_65332.jpg



Slide gates on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

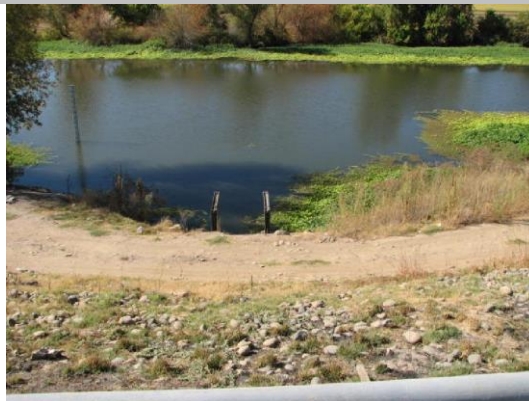
LM Start	19.18	Rating **	A/W	Issue No.	77 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51611  
DS\_ID:17028  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/23/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/9/2012 Need to determine type of abandonment for concrete culverts.  
FIELD\_STRUCT\_DESC: [Pumping Plant No. 1] 3 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]  
FS Date: 4/13/2017 2:50:01 PM

Photo 3 of 3 : UCIP\_SP\_2017\_51611\_65331.jpg



Flap gate at WS toe.

LM Start	19.86	Rating **	U	Issue No.	39
LM End	19.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.924752 °	38.924752 °
				-121.627068 °	-121.627068 °
DWR ID	DWR ST0002 01 f 2016 39				

**Comment Code**

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

**Inspector Comment**

Photo 1 of 2 : SP\_2017\_ST0002\_450\_39\_20170315\_00013.jpg



View of a rodent hole with large hammer sitting on top.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
N/A : Not Applicable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.86	Rating **	U	Issue No.	39 (cont)	
LM End	19.86	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.924752 °		38.924752 °
				-121.627068 °		-121.627068 °
DWR ID	DWR_ST0002_01_f_2016_39					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2017\_ST0002\_450\_39\_20170315\_00014.jpg



Another view of the rodent hole with large hammer hanging in the hole.

LM Start	20.02	Rating **	M	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_29\_20170315\_00007.jpg



View of the vehicle erosion along the waterside slope.

LM Start	20.43	Rating **	M	Issue No.	40
LM End	20.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.916965 °	38.916965 °
				-121.624048 °	-121.624048 °
DWR ID	DWR_ST0002_01_f_2016_40				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_ST0002\_450\_40\_20170315\_00015.jpg



View of the rodent holes along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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